

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

August 10, 2005

U. S. Army Corps of Engineers Regulatory Field Office Post Office Box 1000 Washington, NC 27889-1000

N. C. Dept. of Environment and Natural Resources

Division of Coastal Management

151-B NC Highway 24

Hestron Plaza II

Morehead City, NC 28557

ATTN:

Mr. William J. Biddlecome

NCDOT Coordinator

Regulatory Permits Manager

ATTN:

Mr. Bill Arrington

Subject:

Application for Modifications to CWA Section 404 and 401 permits and CAMA Major permit for the NC 55 Widening. NC 55 Widening From US 17 in Bridgeton to NC 304 in

Bayboro. Craven and Pamlico Counties. State Project No. 8.1170901. Federal Aid Project

STP-55(1). TIP No. R-2539B. Debit \$475 from WBS Element 34452.1.2

Reference:

Original permits:

CWA Section 404 Individual Permit, USACE Action ID # 199303531, dated May 27, 2003. CWA Section 401 Major WQC No. 021232 and Buffer Certification, dated March 17, 2003 CAMA Major Permit No. 55-03, dated April 22, 2003.

Modifications for Section B:

Modification to CWA Section 404 Individual Permit, dated October 1, 2003 Modification to CWA Section 401 Major WQC No. 021232, dated October 27, 2003 Major Modification to CAMA Major Permit No. 55-03, dated October 31, 2003

Dear Sirs:

The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA) is in the process of widening NC 55 in Craven and Pamlico Counties, from 0.7 miles east of US 17 in Bridgeton to NC 304 in Bayboro. The project is approximately 14.2 miles in length, and will provide a five-lane, 60-foot roadway, with four-foot paved shoulders throughout the majority of the project.

The purpose of this submittal is to request a modification to the Section 404 permit and Section 401 Water Quality Certification and refinement to the CAMA Permit, specifically for Section B. The NCDOT proposes to revise a drainage system east of a unnamed tributary to Black Creek in order to accommodate removal of 3 preformed scour holes (PSH). The PSHs were originally proposed as on-site water quality treatment. However, during construction, the 3-foot and 4.5-foot hole depths required to

MAILING ADDRESS:

NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-715-1500 FAX: 919-715-1501 WEBSITE: WWW.NCDOT.ORG LOCATION: 2728 CAPITAL BLVD. PARKER LINCOLN BUILDING, SUITE 168 RALEIGH NC 27604 drain the upstream systems were determined to be ineffective due to probable sedimentation and subsequent outlet pipe blockage. Onsite water quality treatment will be accomplished by directing drainage into 2 grassed swales east of the UT to Black Creek. The proposed modification will result in a decrease in mechanized clearing in wetlands (0.04 acres) and a slight increase in wetland excavation (<0.01 acres), reducing overall wetland impacts by approximately 0.03 acres.

There will be no changes outside of the existing permitted impacts to the Neuse Buffers or within CAMA AECs. Please refer to the attached revised permit drawings (Sites 7, 8, 9, and 10) and the summary memo of proposed actions, dated April 25, 2005. The proposed revised design does not compromise NCDOT's compliance with the existing permit conditions

In summary, the proposed revisions are:

- Wetland impacts reduced by removing design for 3 PSHs at Stations 111+31 left, 113+42 left, and 113+58 left
- Within a non-jurisdictional area eliminate cross pipe at Station 110+50 (under payement)
- Within an already permitted wetland impact area install special cut ditch and driveway pipes from Stations 109+20 to 112+75 right (crosses tip of small wetland; alternative would have been to install ditch on left side of road, which would have affected a much larger wetland system)
- Within an already permitted wetland impact area redesign drainage system of pipes from Stations 112+80 to 121+10 left to outlet into grassed swales at Station 113+20 right.

Regulatory Approvals

Application is hereby made for the modification of the Section 404 Permit from the USACE, Section 401 Water Quality Certification from the NCDENR-DWQ, and the CAMA Major Permit from NCDENR-DCM. In compliance with Section 143-215.3D(e) of the NCAA we have provided a method of debiting \$475, as noted in the subject line of this application, as payment for processing the Section 401 Water Quality Certification and CAMA modifications applications. We are providing seven copies of this application to NCDENR-DWQ, for processing. Please note that a pre-application meeting was held on April 12, 2005 with the NCDWQ to review buffer and water quality issues. Nicole Thomson and John Hennessy were in attendance and agreed to the proposed revisions.

If you have any questions or need additional information, please call Elizabeth L. Lusk at (919) 715-1444.

Sincerely,

Gregory Thorpe, Ph.D.
Environmental Management Director, PDEA

Revised permit drawings (Sites 7, 8, 9, & 10) Attachments:

Conceptual plans reviewed in April 12, 2005 meeting with NCDWO

Memos (2) of proposed revisions from MA Engineering Consultants, Inc.

W/attachment

Mr. John Hennessy, NCDWQ (7 Copies)

Mr. Travis Wilson, NCWRC

Ms. Becky Fox, USEPA – Whittier, NC

Mr. Ronald Mikulak, USEPA - Atlanta, GA

Mr. Clarence W. Coleman, P.E., FHWA

Mr. Gary Jordan, USFWS

Mr. Ron Sechler, NMFS

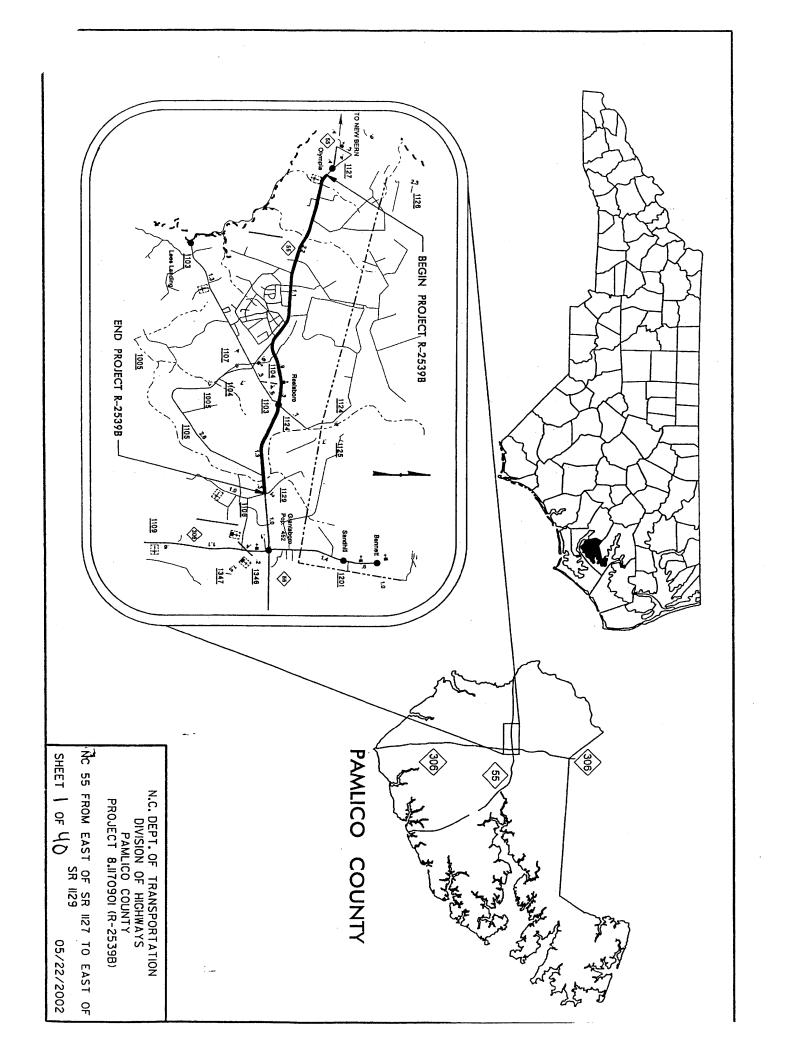
Mr. Michael Street, NCDMF

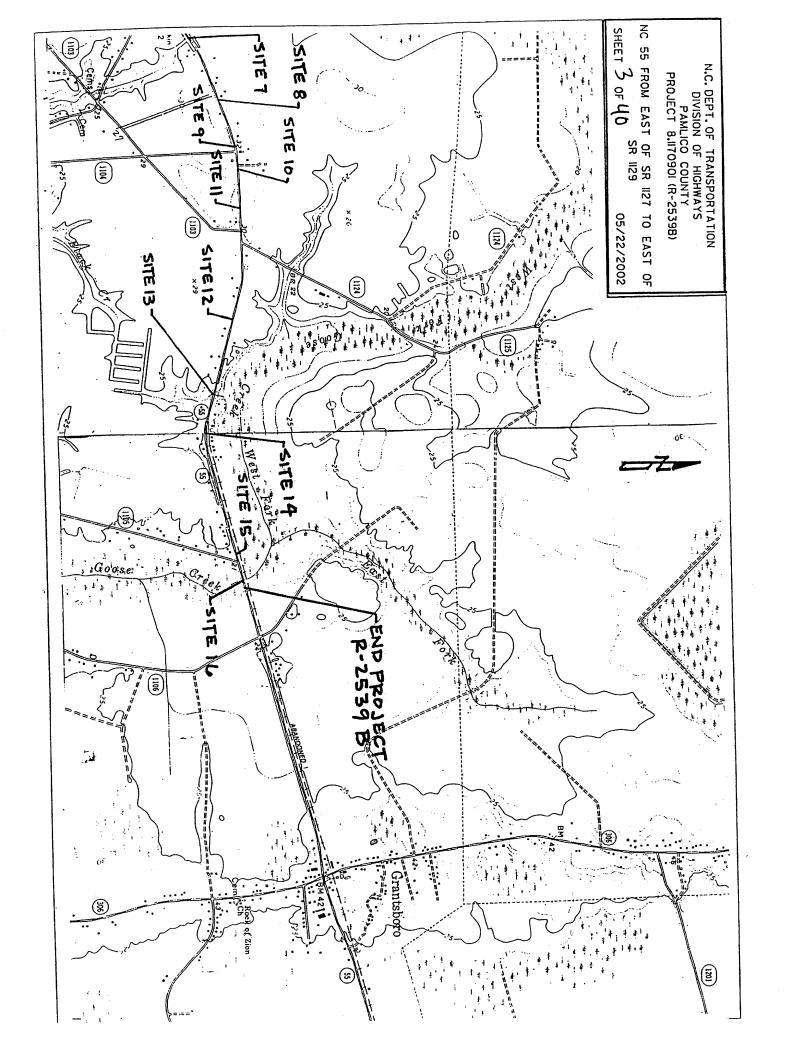
Ms. Steve Sollod, NCDCM

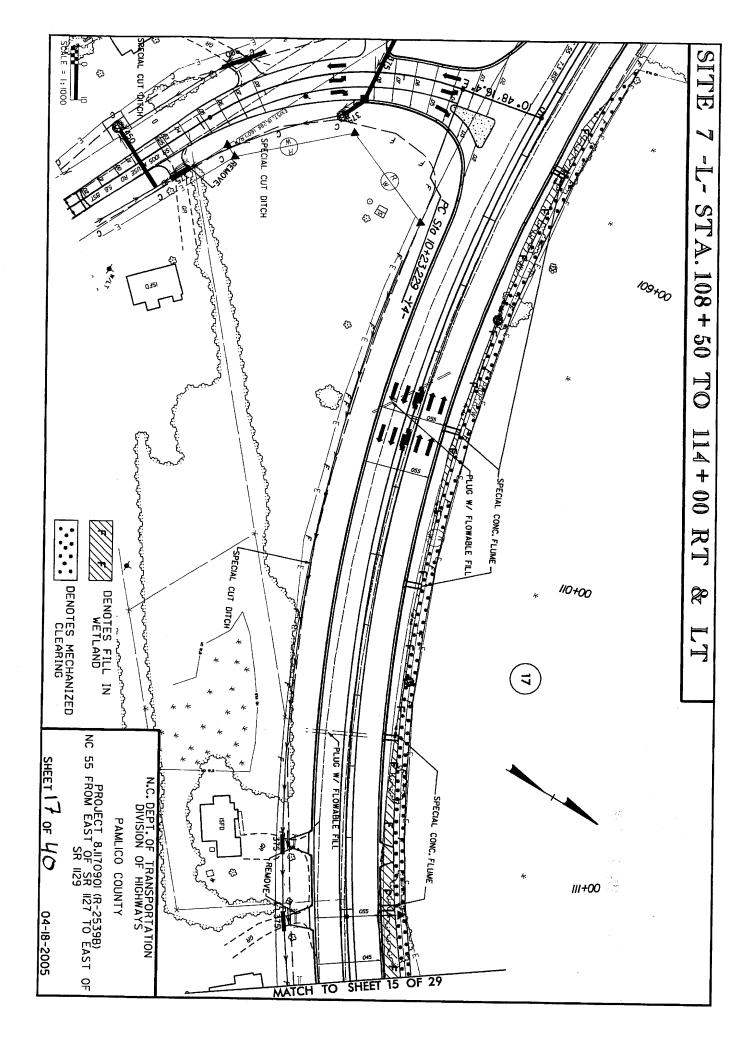
Mr. Bill Arrington, NCDCM

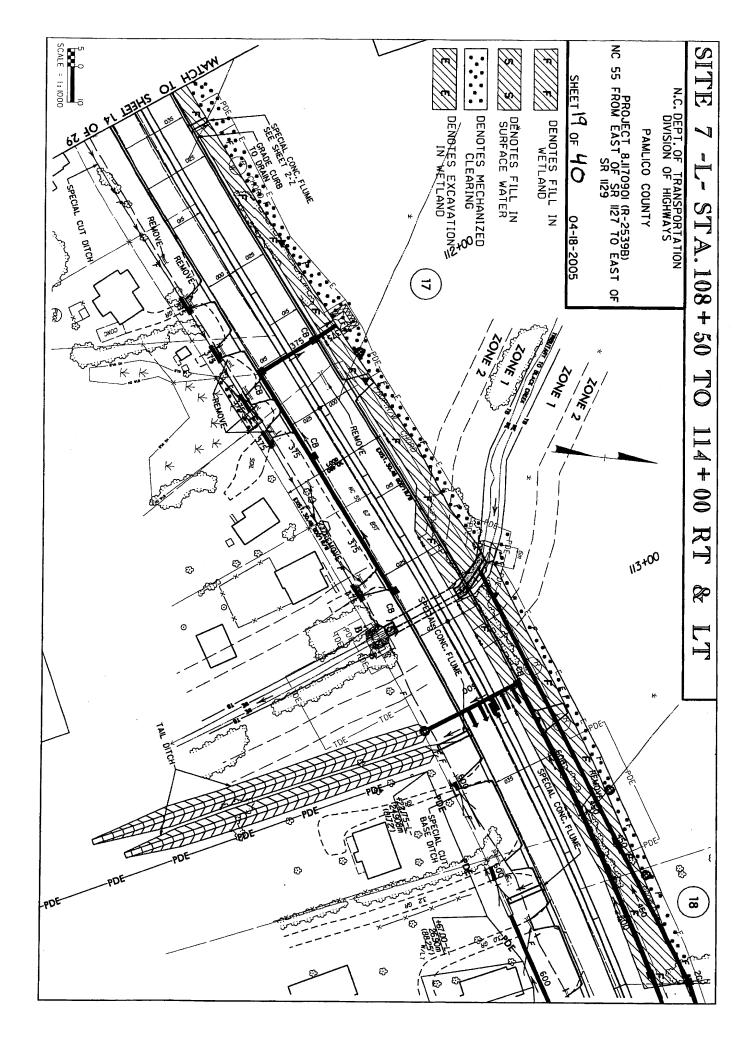
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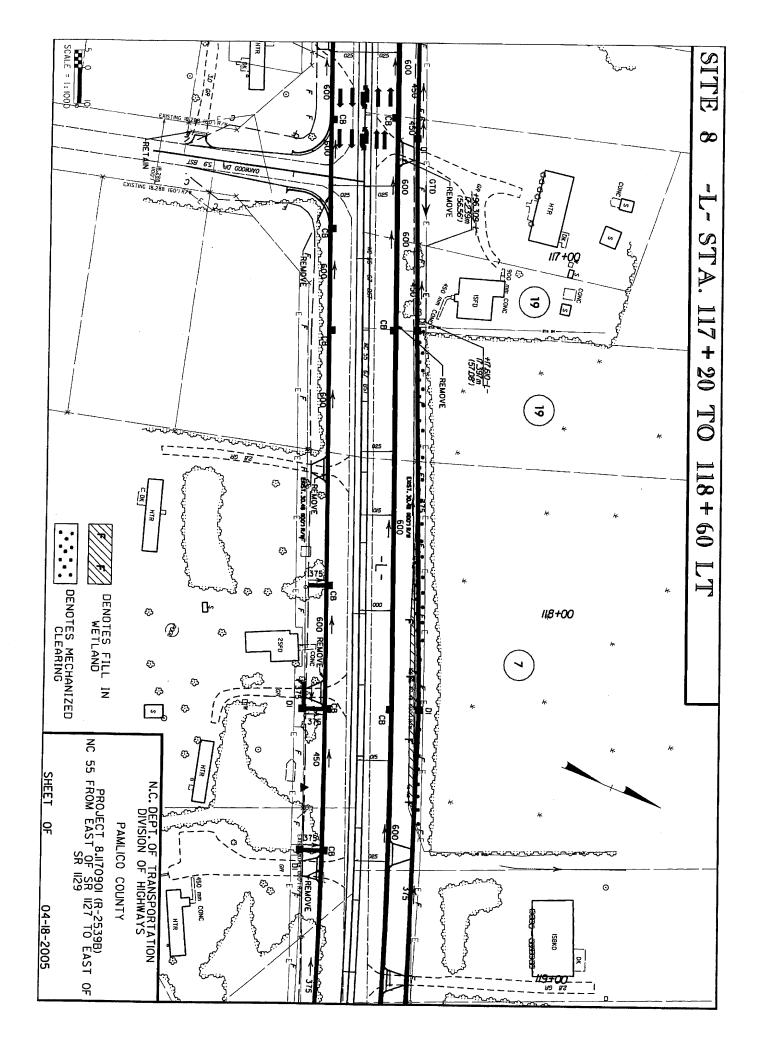
Mr. Scott McLendon, USACE, Wilmington (Cover Letter Only)

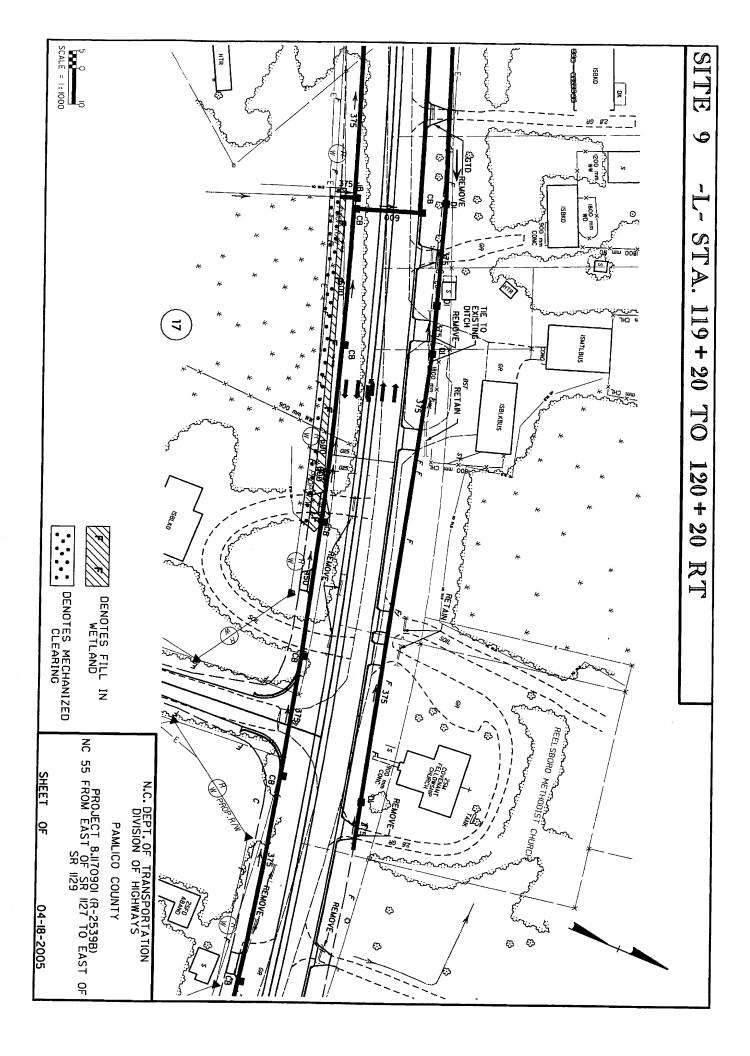


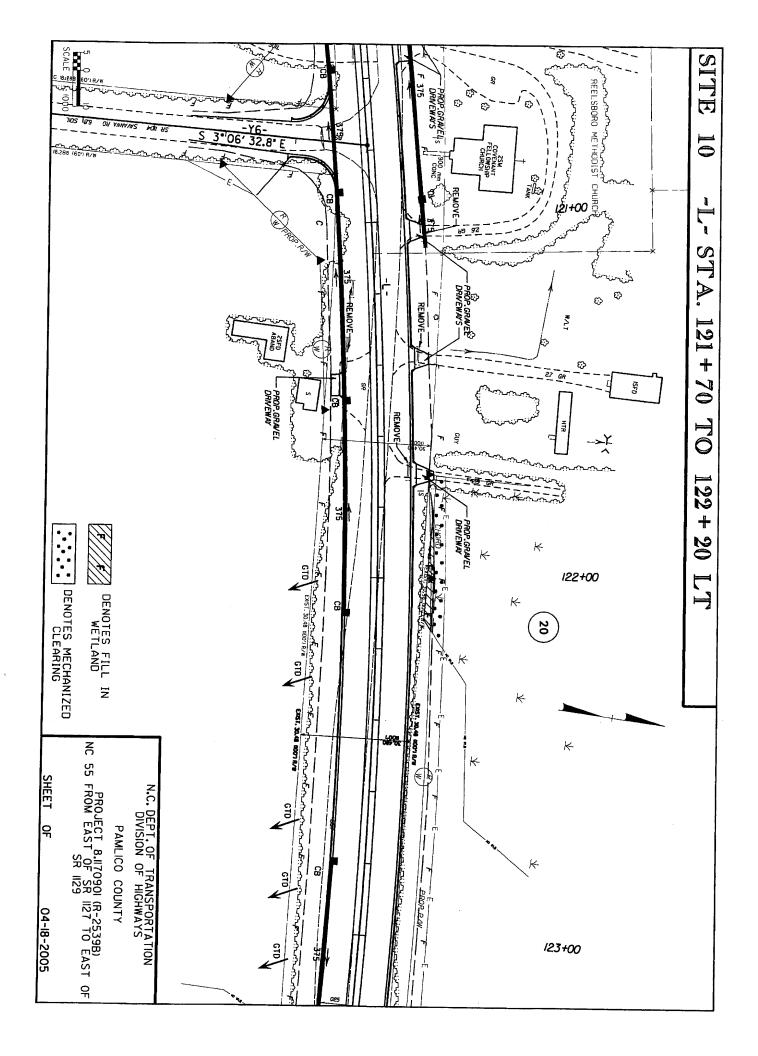












		"SITE NO.		TOTALS: I	16	15	14	13	11	10	9	8	7	6	5	.4	3	2	_	Site No.		
Form Revised 3/22/01). 4 - EXISTING ROAD AN			148+10 TO 151+40	145+35 TO 146+75	139+10 TO 139+20	134+75 TO 137+30	123+75 TO 125+60	121+70 TO 122+20	119+20 TO 120+20	117+20 TO 118+60	108+50 TO 114+00	102+35 TO 103+65	81+85 TO 82+00	74+85 TO 77+40	62+25 TO 63+60	59+70 TO 61+00	56+30 TO 56+55	Station (From/To)		
	THE STATE OF THE S	 SITE NO. 4 - EXISTING ROAD REMOVED, RECLAIMED WETLAND = 0.234 (ha) ** SITE NO. 16 - EXISTING ROAD AND RAILROAD EMBANKMENT REMOVED; RECLAIMED WETLAND = 0.754 (ha) 			BRIDGE; 17 SPAN (6@ 13m, 1@ 15m, 10@ 13m) = 223m 533mm CORED SLAB			EXTENSION OF 1.8 x 1.2 RCBC					EXTENSION OF 1.8 x 1.2 & 1.2 x 1.2 HCBC (TWO CELLS)		EXTENSION OF 1050 RCP w/COLLARS	BRIDGE; 5 SPAN (5@ 20m) = 100m 1143mm PRESTRESSED CONCRETE GIRDERS		EXTENSION OF 2@ 1650 RCP w/COLLARS		Structure Size / Type		
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	(na)	Î	0.003													0.003				Temp. Fill In Wetlands (ha)	WETLANI	
			0.102				0.002	0.048					0.002			0.004		0.012	0.034	Excavation In Wetlands (ha)	WETLAND IMPACTS	OCWINAL
PROJECT 8.1170901 (R-2539B) NC 55 FROM EAST OF SR 1127 TO EAST OF SR 1129 SHEET OF 40-18-2005			0.623		0.034	0.035	0.004	0.132	0.017	0.013	0.023	0.038	0.190	0.038	0.005	0.057	0.010	0.019	0.008	Mechanized Clearing (Method III) (ha)	Machanizad	4
	PAMILCO COUNTY	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	0.014 0.000					0.006					0.003		0.001			0.004	-	Fill In SW (Natural) (ha)		
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		DEPT. OF TRANSPORTA- DIVISION OF HIGHWAYS	0.000																	Temp. Fill In SW (ha)	SURFACE WATER IMPACTS	
		TION	90					36					16		16			22		Existing Channel Impacted (m)	MPACTS	
			41					41												Natural Stream Design		

Memorandum of Drainage Revisions

To:

Victor Chavez, P.E.

From:

Chad H. Critcher, P.E.

Re:

NC 55 WIDENING FROM EAST OF SR1127 TO EAST OF SR1129

TIP# - R2539B

PAMLICO COUNTY

Date:

April 25, 2005

Drainage items revised in association with removal of the Preformed Scour Holes at -L-Stations 111+31 left, 113+42 left and 113+58 left include the following:

- 1. Drainage system from 109+50 to 111+30 left has been eliminated through use of flumes in place of catch basins. Sheet 2-Z will be added to the plans to detail this special flume construction.
- Cross pipe at 110+50 has been eliminated. A special cut ditch and driveway pipes
 have been designed from 109+20 to 112+75 right to carry drainage to culvert site.
 The back slope of the ditch will tie very close to the existing easement / right of
 way and therefore, no additional easement is proposed.
- 3. A drainage system has been designed from 112+80 to 121+10 left to carry the off-site "clean water" directly to the Black Creek Tributary. Additional easement is required from the DeVillo property at 115+95 to 116+31 left and the Goodwin property at 116+96 to 117+18 left.
- 4. The on-site "dirty water" has been divided into a left and right system and discharged into swales of sufficient length for on-site treatment. Construction of the swales will require additional easement from the Harper, Burnette, Walter and Taylor properties from 112+80 to 114+85 right.



M A Engineering Consultants, Inc.



April 25, 2005

Mr. Victor Chavez, P.E. Parsons One Harrison Park, Suite 200 401 Harrison Oaks Boulevard Cary, NC 27513

RE: R-2539B

Drainage Design Revisions

Plan Sheets 19-23

Dear Mr. Chavez:

Attached is a memo outlining drainage items revised in association with removal of the Preformed Scour Holes at –L- Stations 111+31 left, 113+42 left and 113+58 left for the referenced project. These Preformed Scour Holes were originally proposed as on-site water quality treatment. During construction, the 3' to 4.5' hole depths required to drain the upstream systems were determined to be ineffective due to probable sedimentation and subsequent outlet pipe blockage.

In lieu of the scour holes, the revised plans will achieve water quality through construction of a parallel pipe system from -L- Station 112+80 to 121+10 left that intercepts off site water and discharges this "clean water" directly into the Black Creek Tributary. Also, the on-site "dirty water" will be collected in systems on the left and right and discharged into proposed swales. These swales are of sufficient length for treatment prior to discharge into the Creek.

If you should have any questions or need additional information, please call me at (704) 896-5250.

1. Critch

Sincerely,

M A ENGINEERING CONSULTANTS, INC.

16415-A Northcross Drive Huntersville, NC 28078

Chad H. Critcher, P.E. Senior Associate

v 704,896,5250

1 704.896.5239

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Raleigh, NC

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